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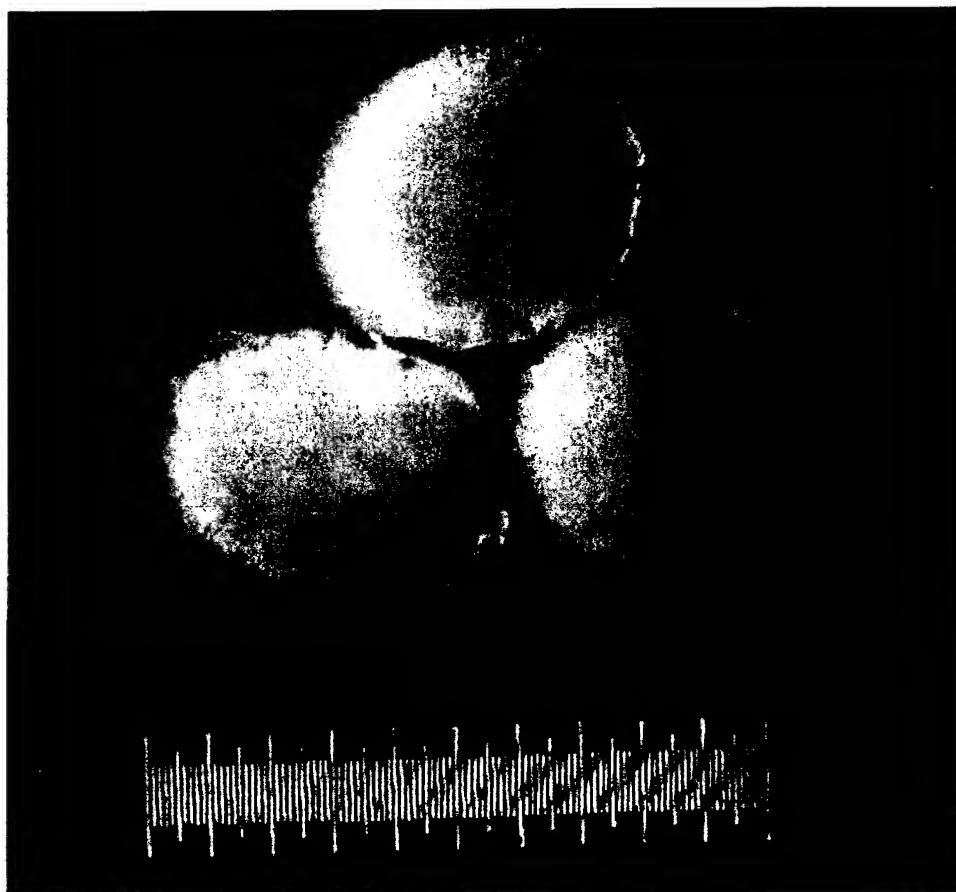
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18304 U.S. PTO

FIGURE 1

Photomicrograph of Sugar Spheres (Non-Pareils)
30/35 mesh sieve cut



150X Magnification
Scale

Each small division = 10 micron
Each large division = 100 micron

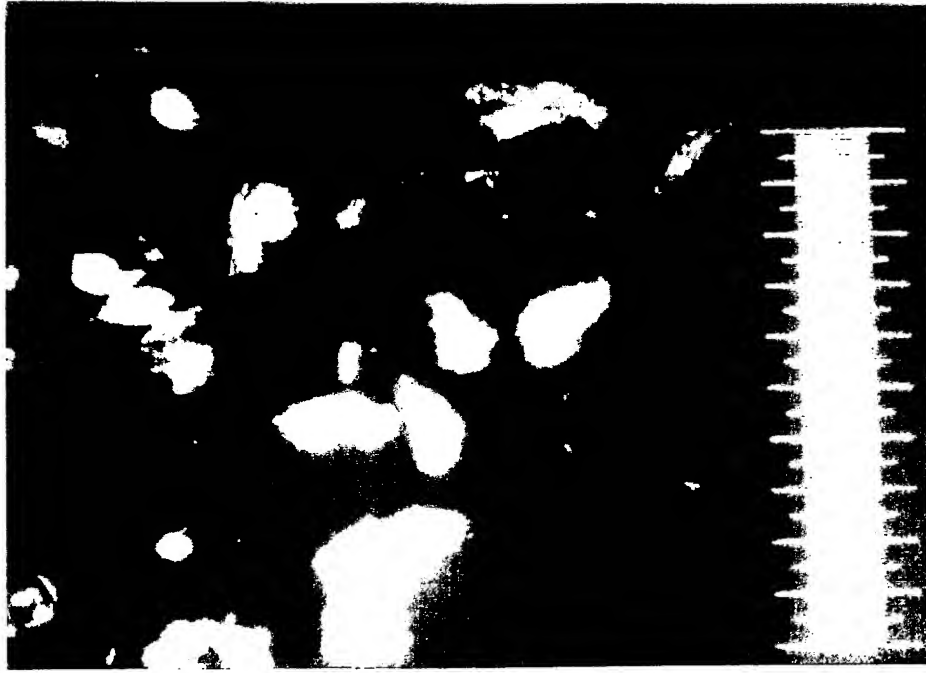
FIGURE 2
Photomicrograph of Celphere CP-507



150 Magnification
Scale
Each small division= 10 micron
Each large division=100 micron

FIGURE 3A

Photomicrograph of Avicel PH 200



150X Magnification

Scale

Each small division = 10 micron

Each large division = 100 micron

FIGURE 3B

Photomicrograph of Avicel PH 200
(Courtesy of FMC Corp.)



200X Magnification

Scale:

Each large division = 100 micron

FIGURE 4A

Photomicrograph of Emcompress



150X Magnification
Scale
Each small division = 10 micron
Each large division = 100 micron

FIGURE 4B

Photomicrograph of Emcompress
(Courtesy of Edward Mendell/Penwest)

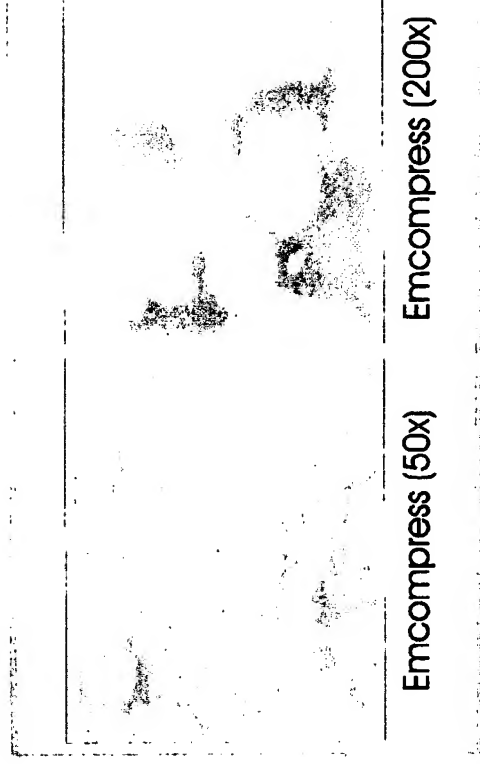


FIG. 5

Particle Size (Sonic Sieve Analysis) of Avicel PH200 Before Fluidization,
After Fluidization and After First Coating Application

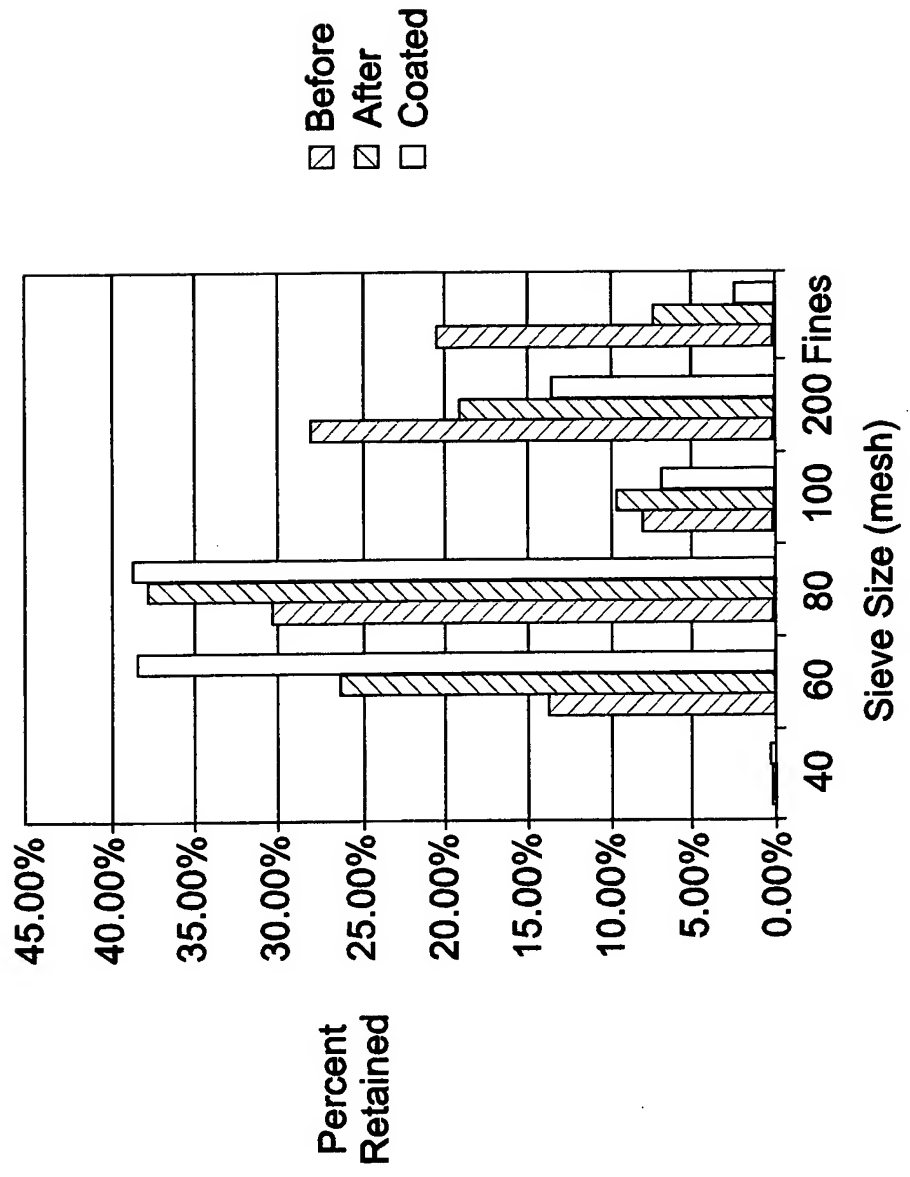


FIG. 6

Particle Size (Sonic Sieve Analysis) of Emcompress Before Fluidization,
After Fluidization and After First Coating Application

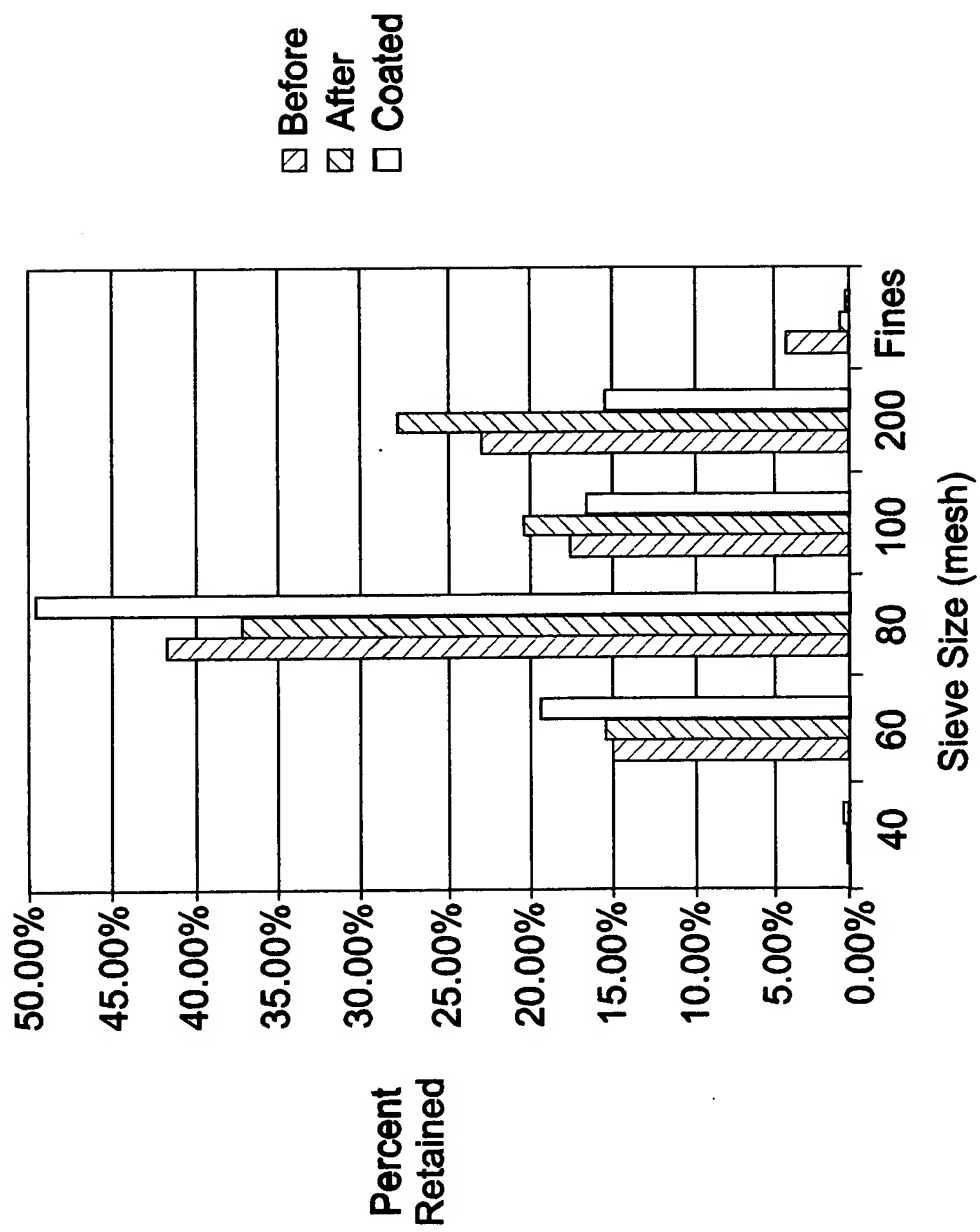
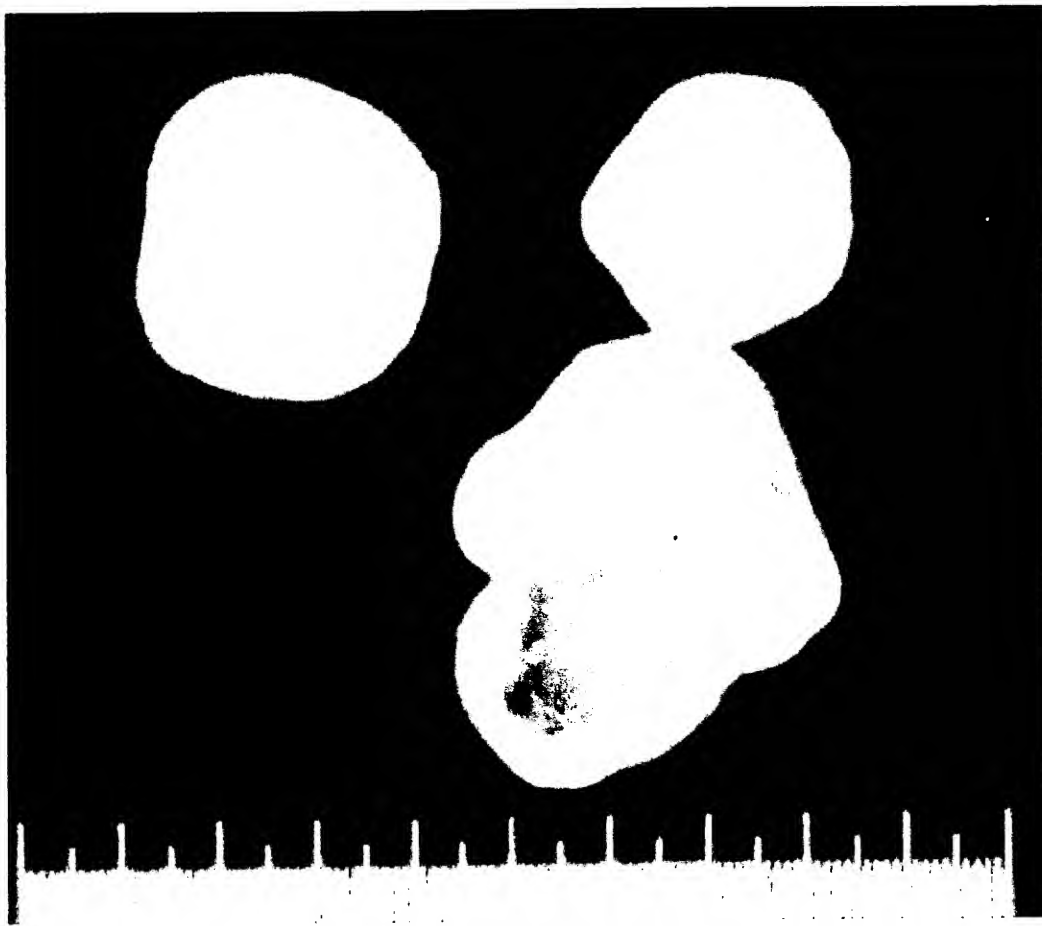


FIGURE 7

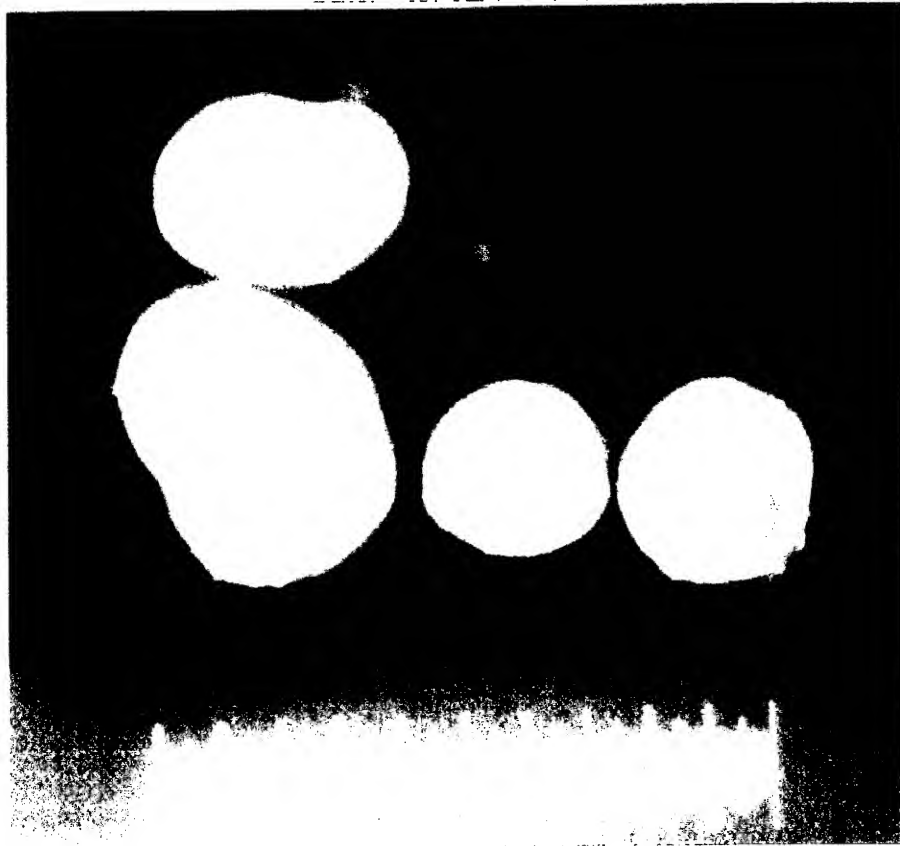
Formulation 1 - Instant Release
(Emcompress+ PE Coat+ API/Opadry II Coat)
Batch Number 02/147-030



150X Magnification
Scale:
Each small division= 10 micron
Each large division=100 micron

FIG. 8

Formulation 2 - Enteric Coated
(Emcompress+ PE Coat+ API/Opadry II
Coat + Eudragit L30-D55 and RS30D Coat)
Batch Number 02/147-045



150 Magnification

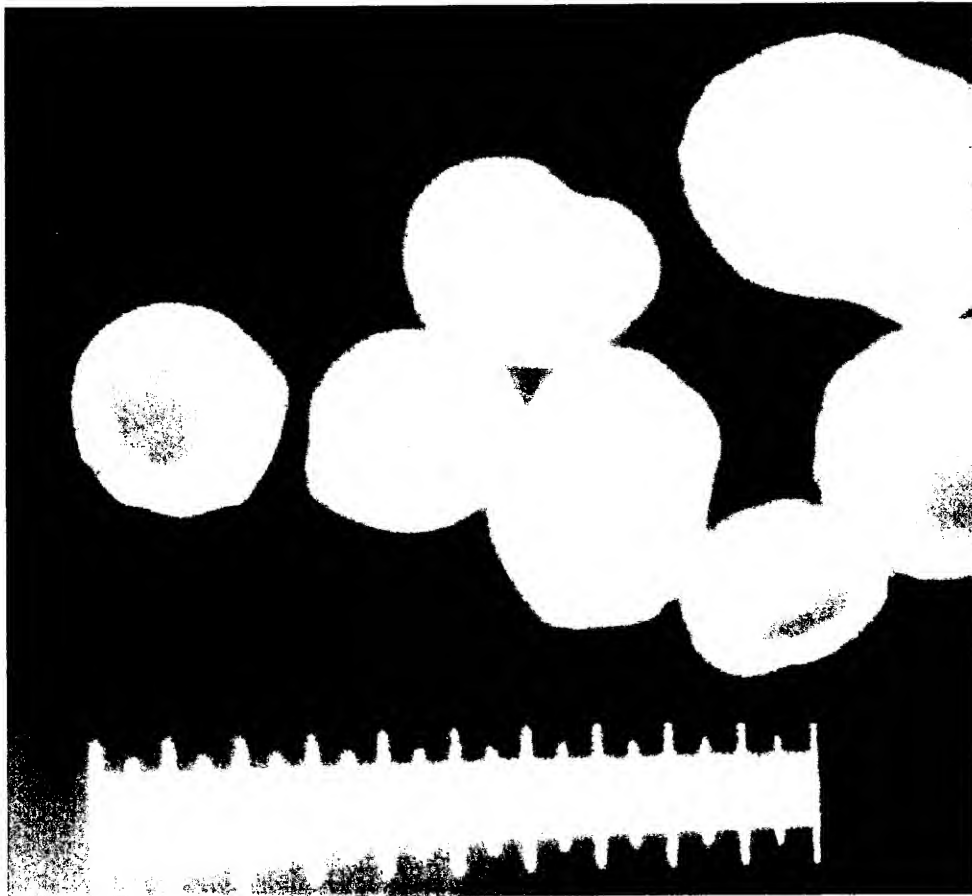
Scale:

Each small division= 10 micron

Each large division=100 micron

FIG. 9

Formulation 3 - Sustained-Release Coated
(Emcompress+ PE Coat+ API/Opadry II
Coat + Surelease/Opadry II Coat)
Batch Number 02/147-043



150 Magnification

Scale:

Each small division= 10 micron

Each large division= 100 micron

Glucose-lowering Effect of a Sustained-Release Encapsulated Bead Formation
Dosed at ~0.50 mg/kg (p.o.) to Fasted Beagles

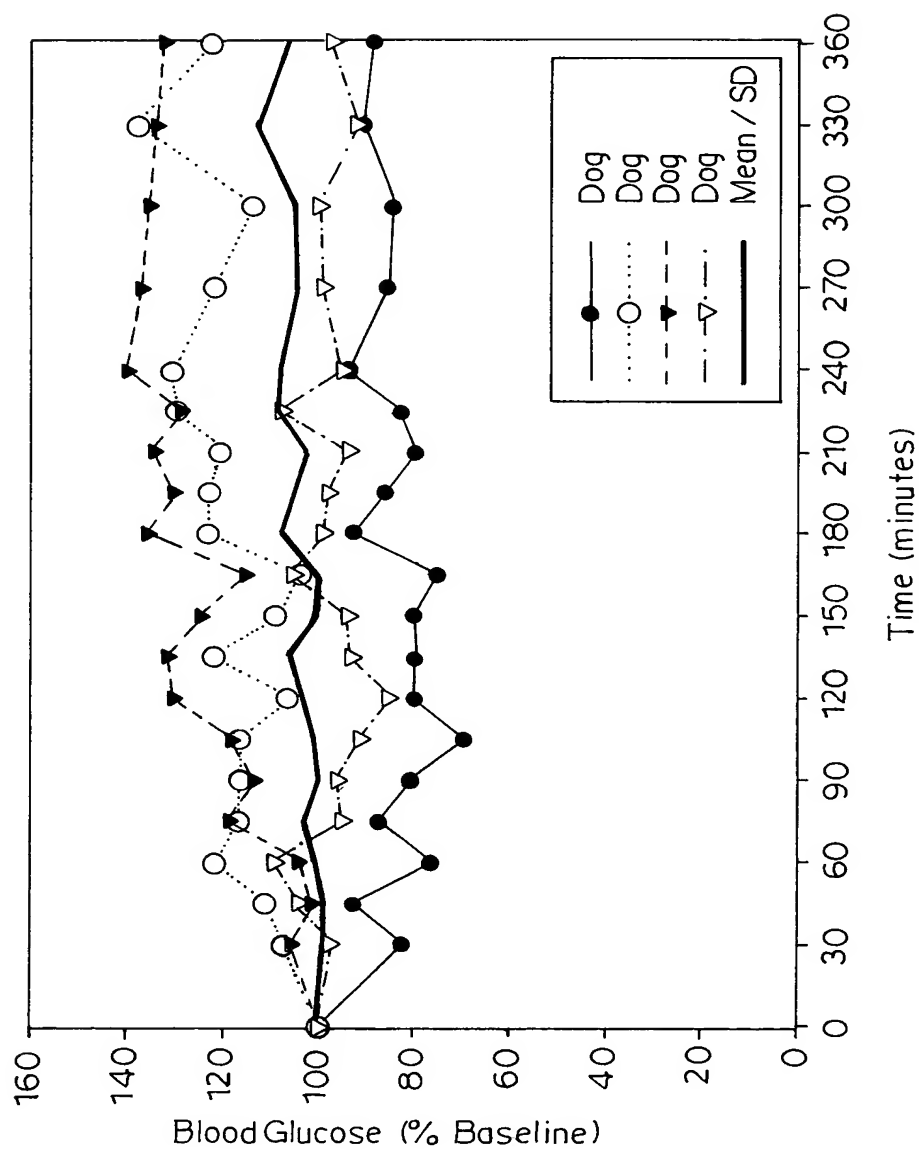


FIG. 10

Glucose-lowering Effect of a Sustained-Release Encapsulated Bead Formulation
Dosed at ~0.50 mg/kg (p.o.) to Fasted Beagles

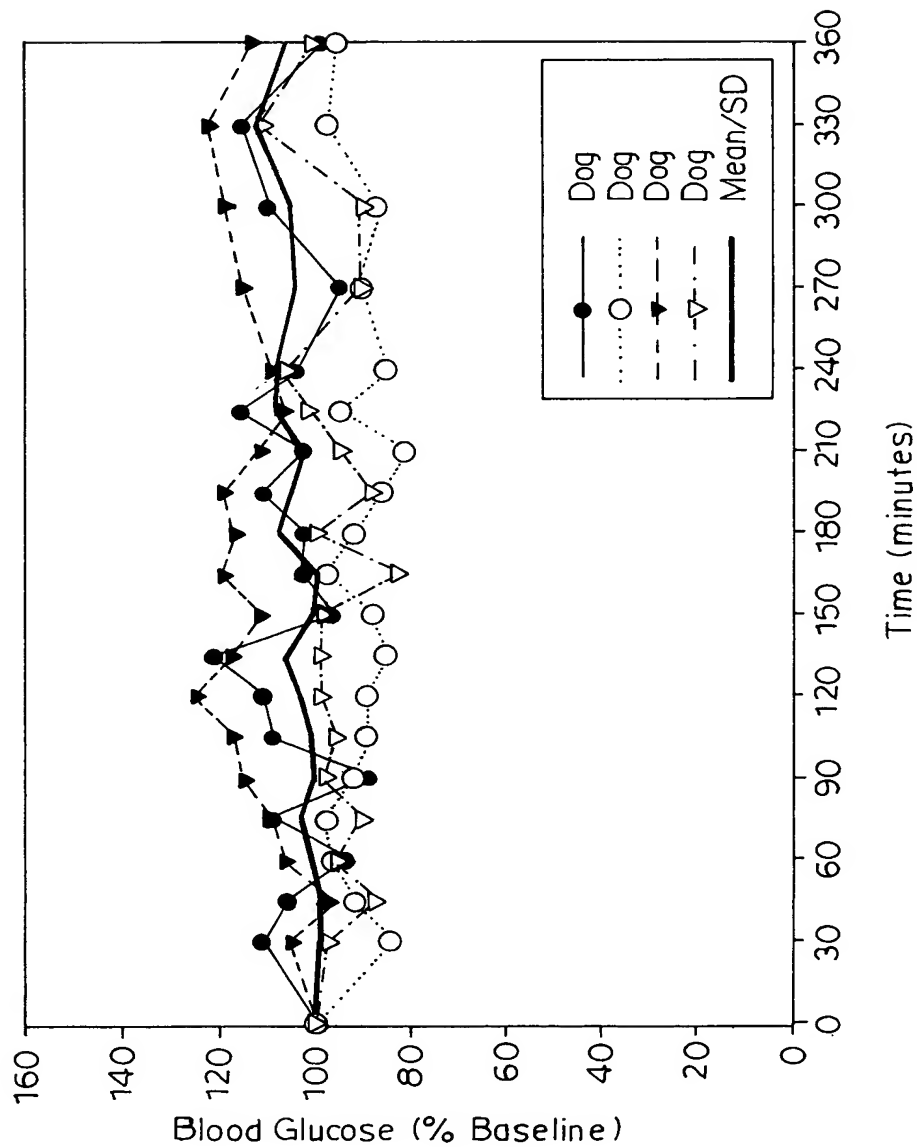


FIG. 11

Glucose-lowering Effect Non-Coated Tablet
Dosed at 0.50 mg/kg (p.o.) to Fasted Beagles

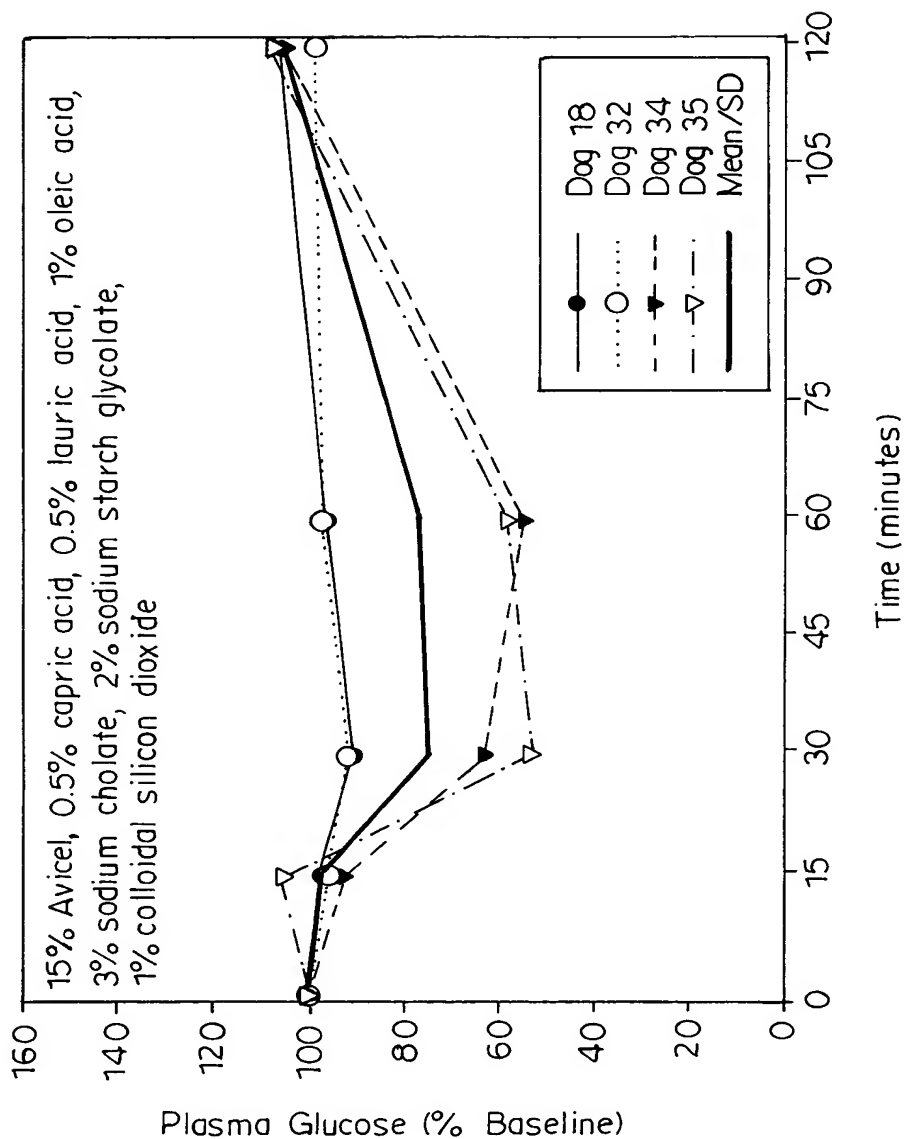


FIG. 12

Glucose-lowering Effect Enteric-Coated Tablet Formulation
Dosed at ~0.50 mg/kg (p.o.) to Fasted Beagles

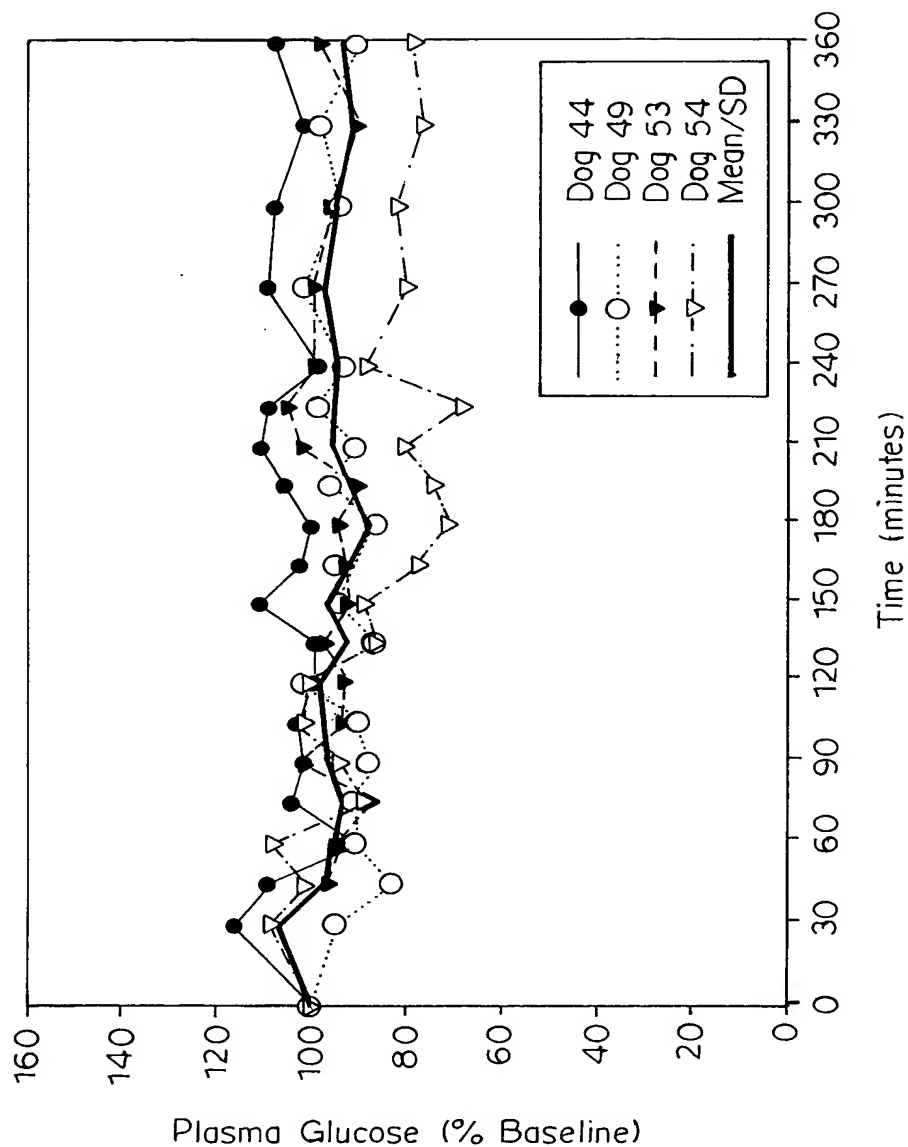


FIG. 13

Glucose-lowering Effect Non-Coated Tablet
Dosed at 0.50 mg/kg (p.o.) to Fasted Beagles

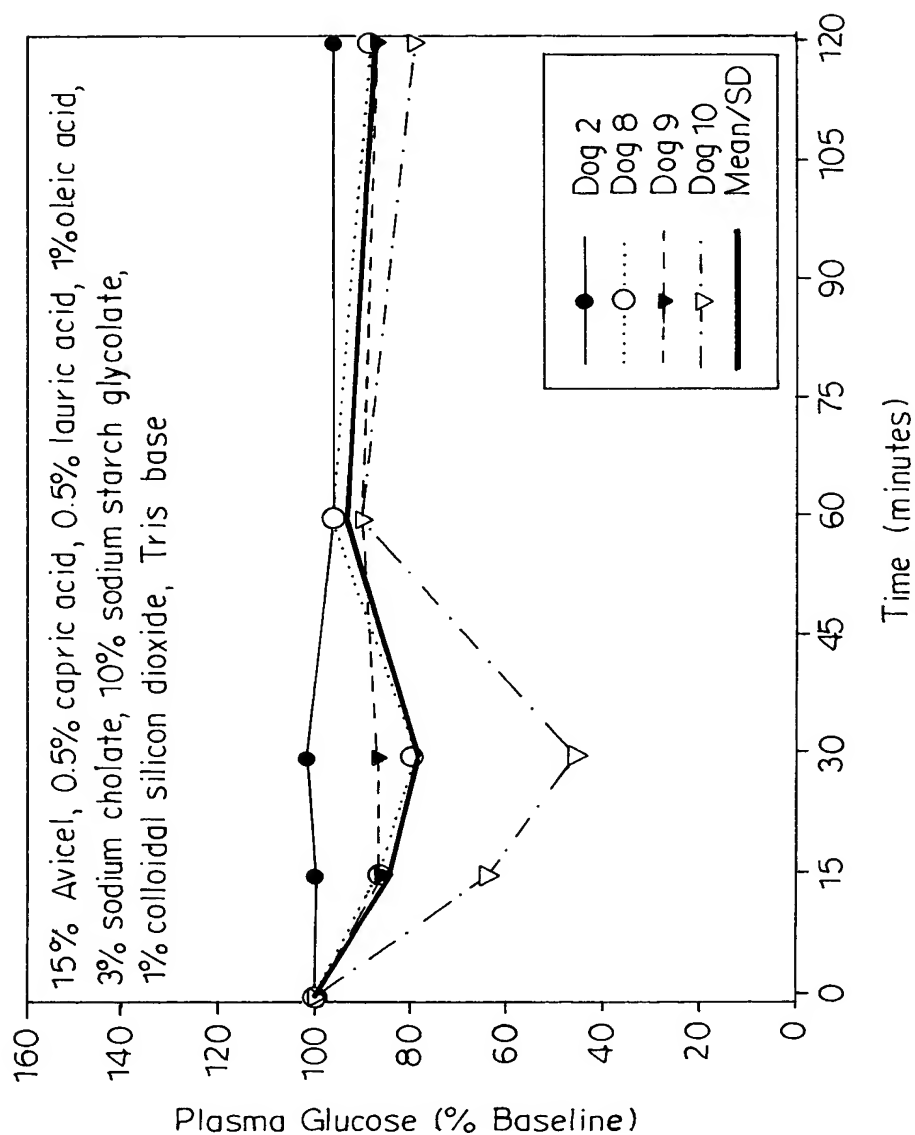


FIG. 14

Glucose-lowering Effect Enteric-Coated Tablet Formulation
Dosed at ~0.50 mg/kg (p.o.) to Fasting Beagles

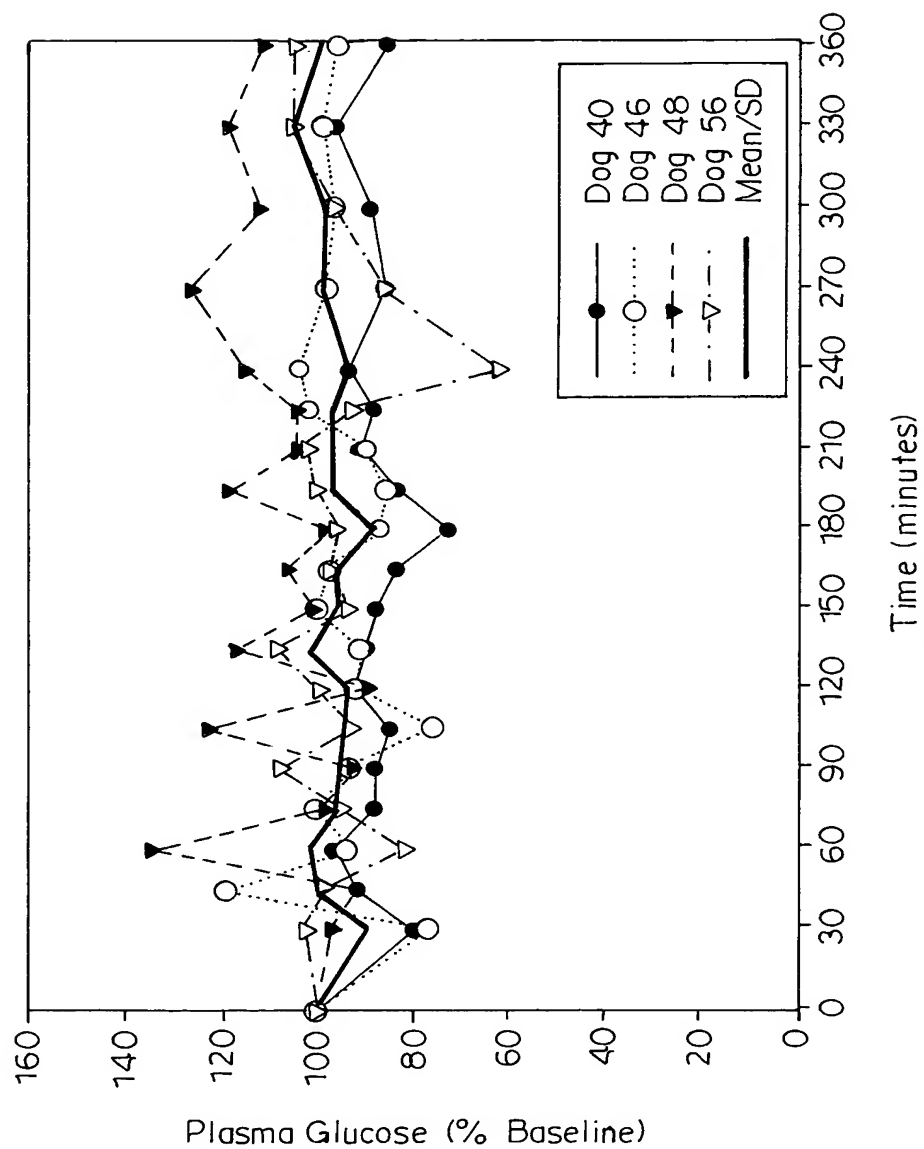


FIG. 15

Glucose-lowering Effect Non-Coated Tablet
Dosed at 0.50 mg/kg (p.o.) to Fasted Beagles

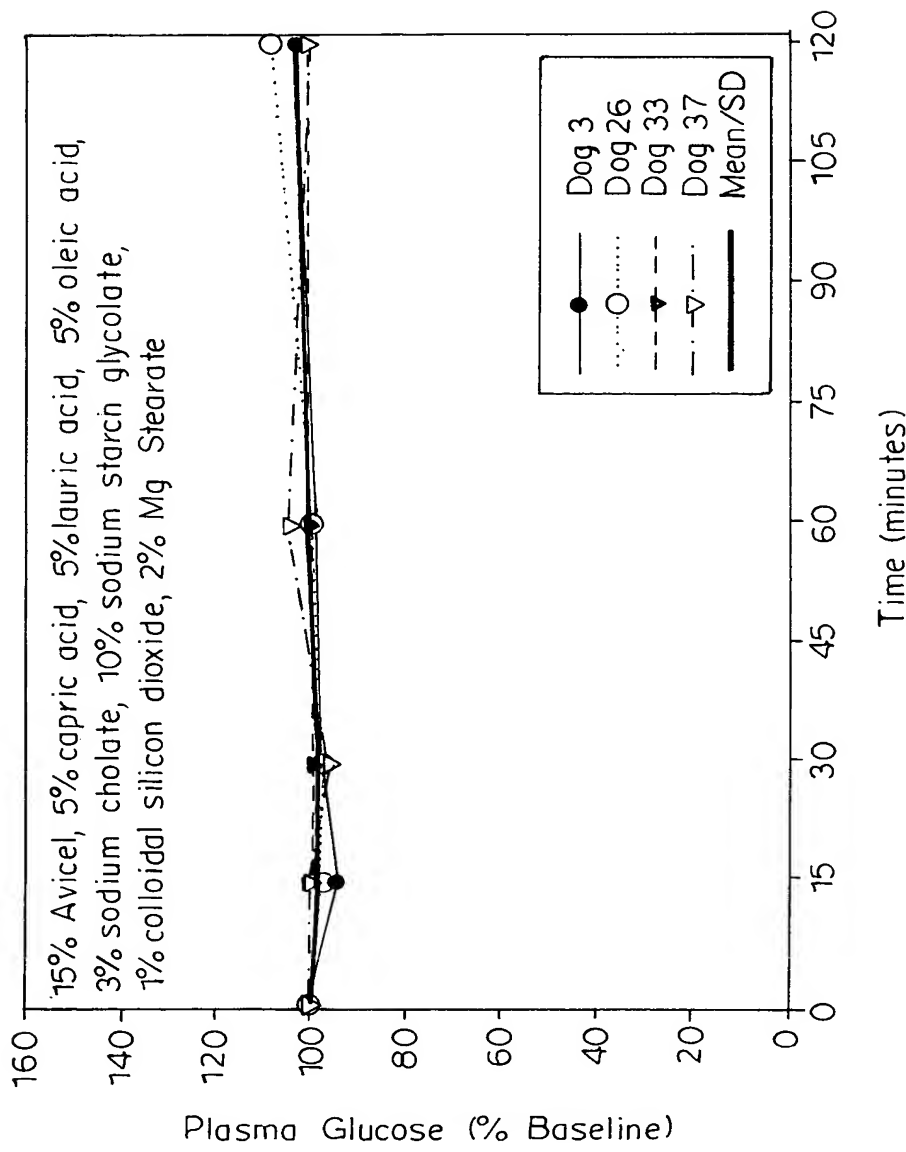
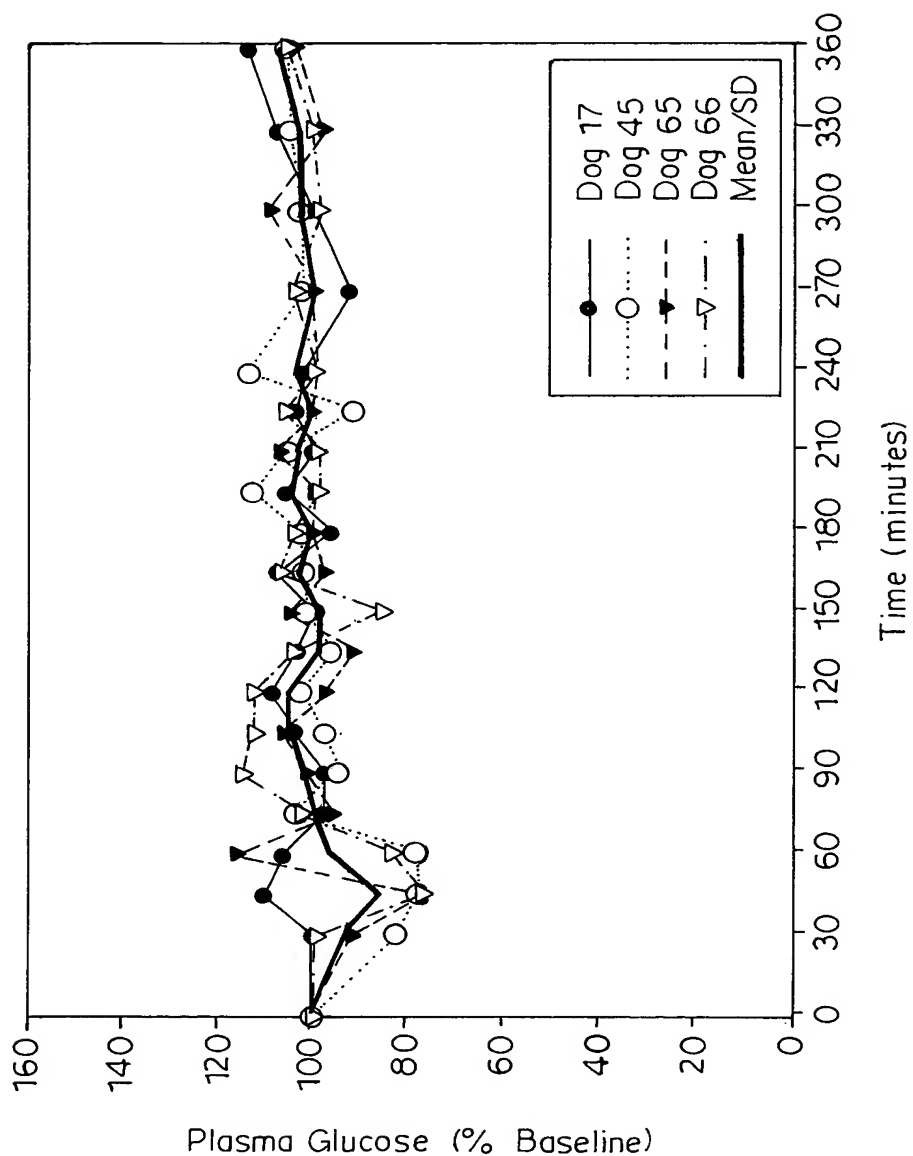


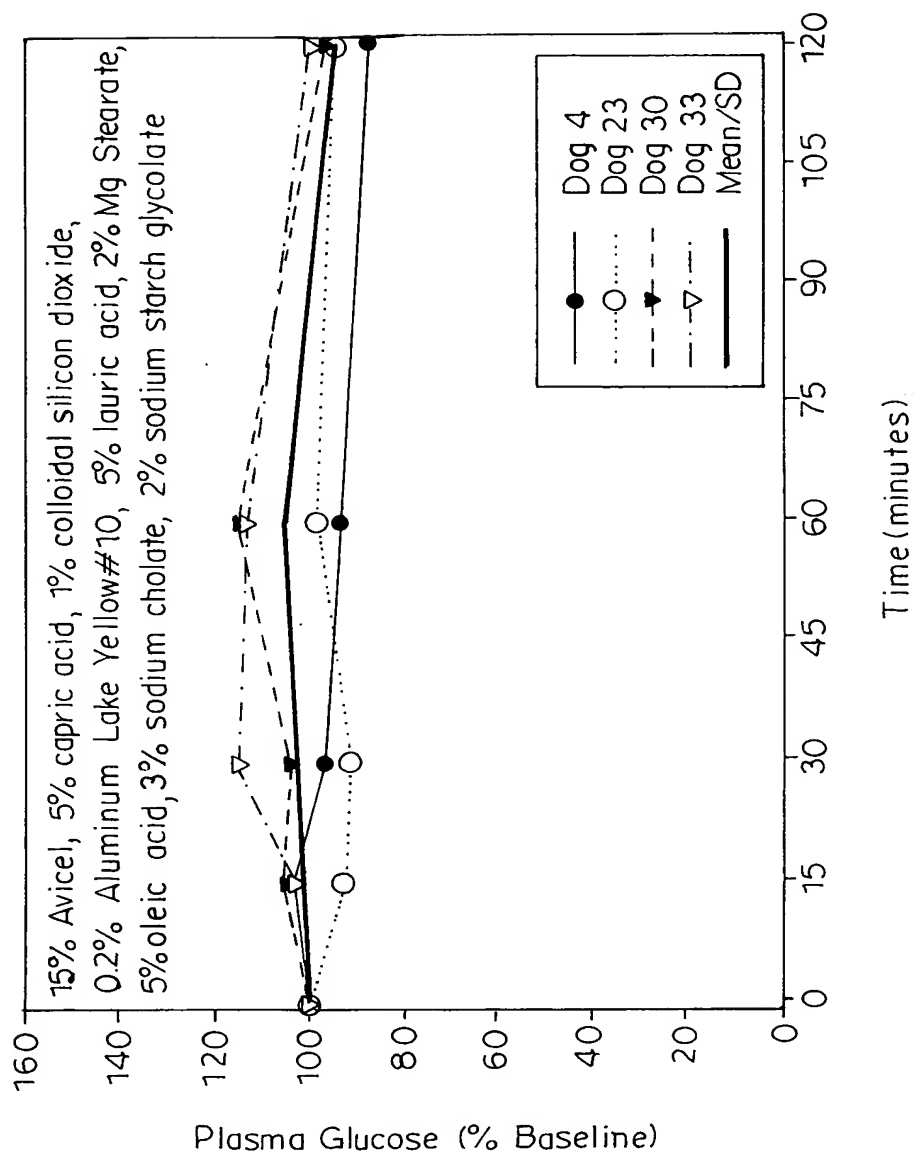
FIG. 16

Glucose-lowering Effect Enteric-Coated Tablet Formulation
Dosed at ~0.50 mg/kg (p.o.) to Fasted Beagles



Time (minutes)
FIG. 17

Glucose-lowering Effect Non-Coated Tablet Formulation
Dosed at ~0.50 mg/kg (p.o.) to Fasted Beagles



Time (minutes)

FIG. 18

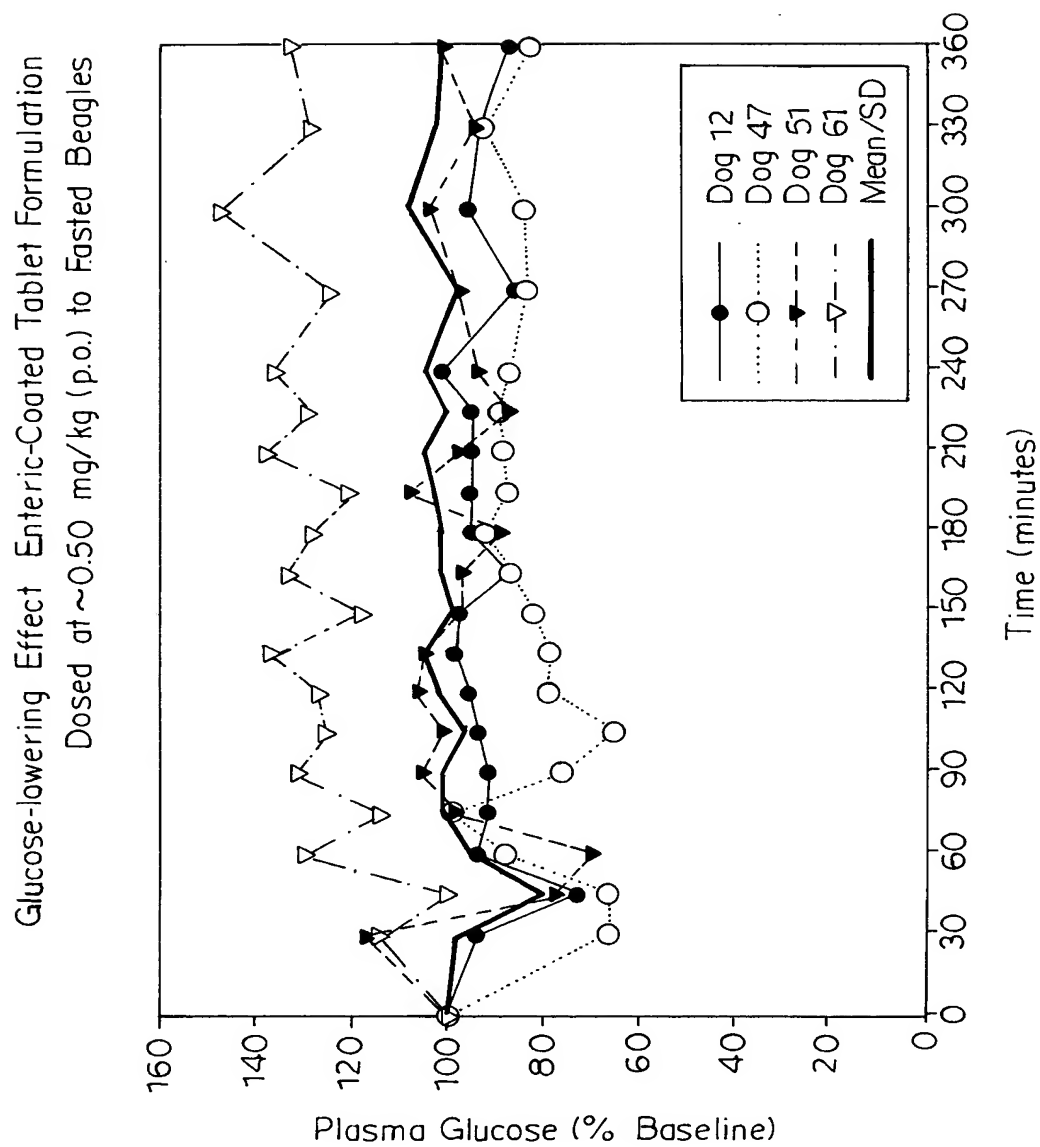


FIG. 19

Glucose-lowering Effect Non-Coated Tablet Formulation
Dosed at ~0.50 mg/kg (p.o.) to Fasted Beagles

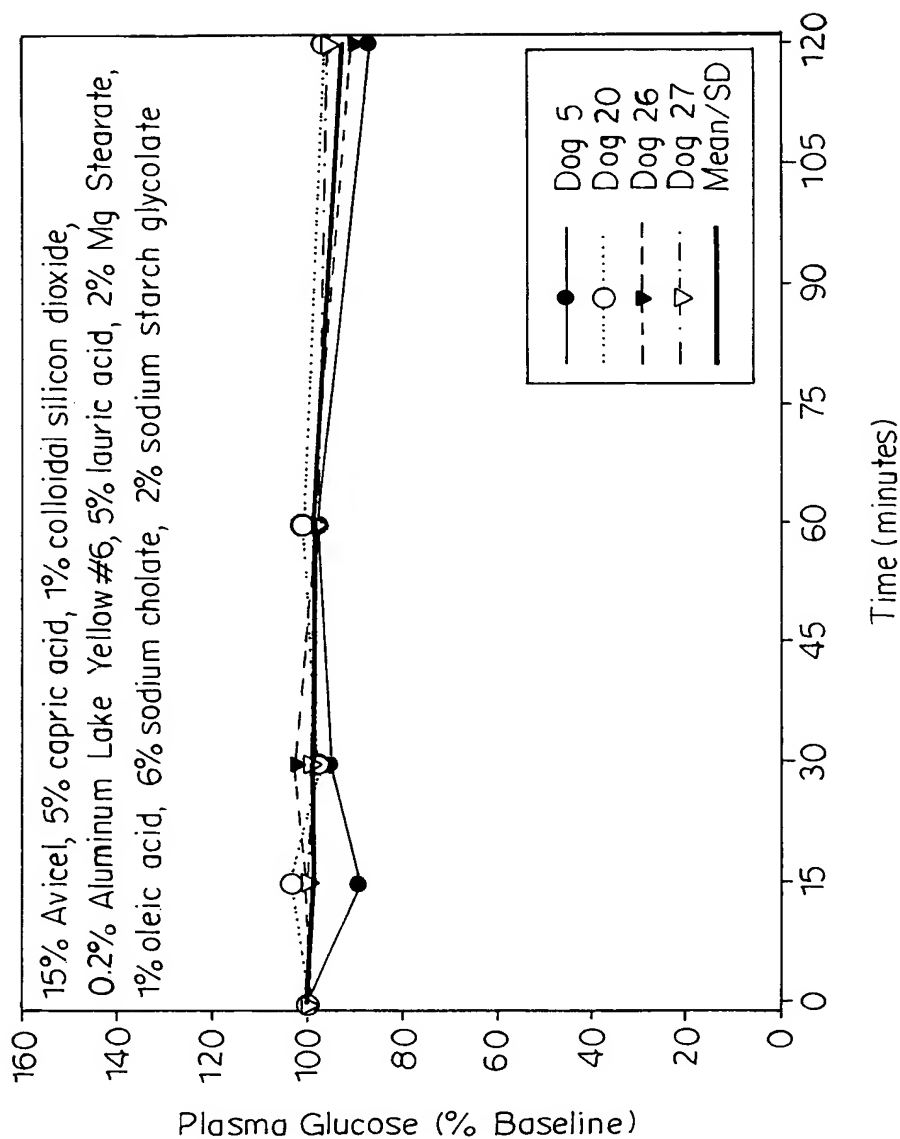


FIG. 20

Glucose-lowering Effect Enteric-Coated Tablet Formulation
Dosed at ~0.50 mg/kg (p.o.) to Fasted Beagles

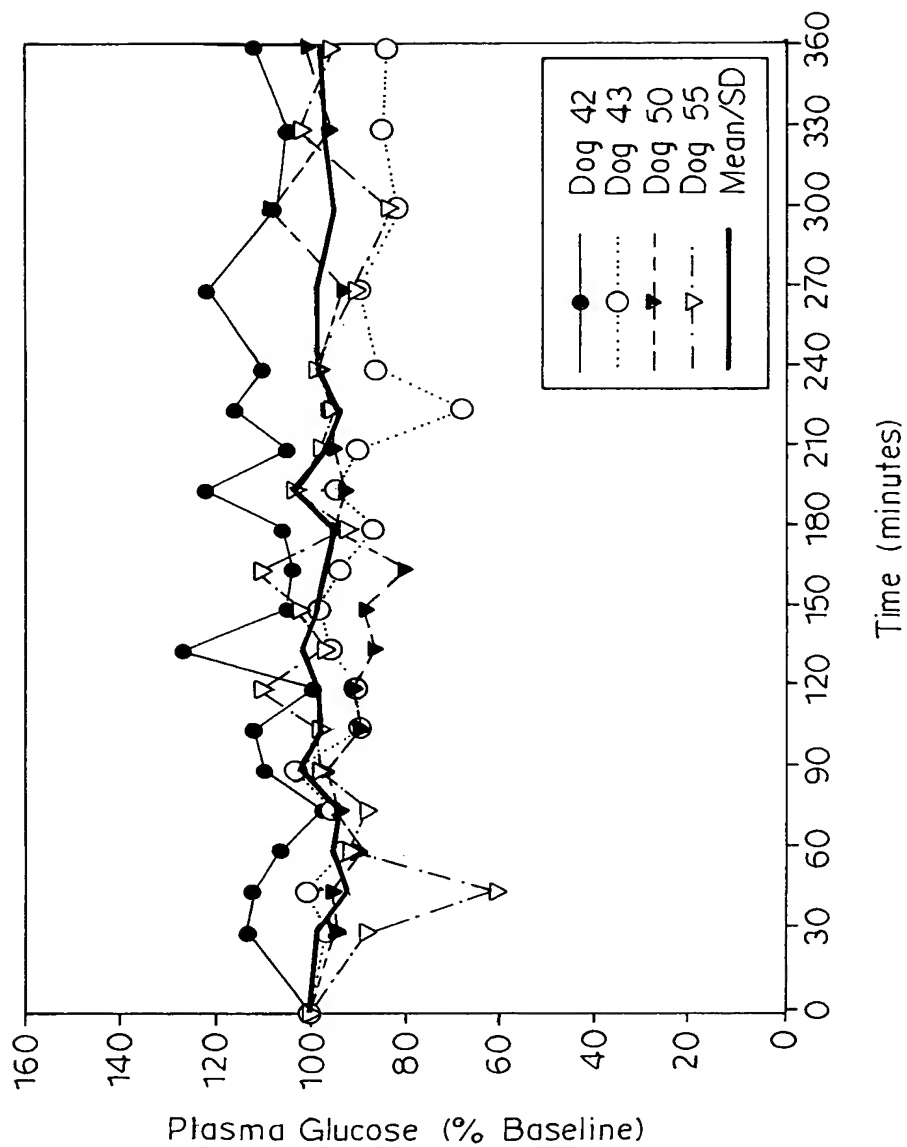


FIG. 21

Glucose-lowering Effect Non-Coated Tablet
Dosed at 0.50 mg/kg (p.o.) to Fasted Beagles

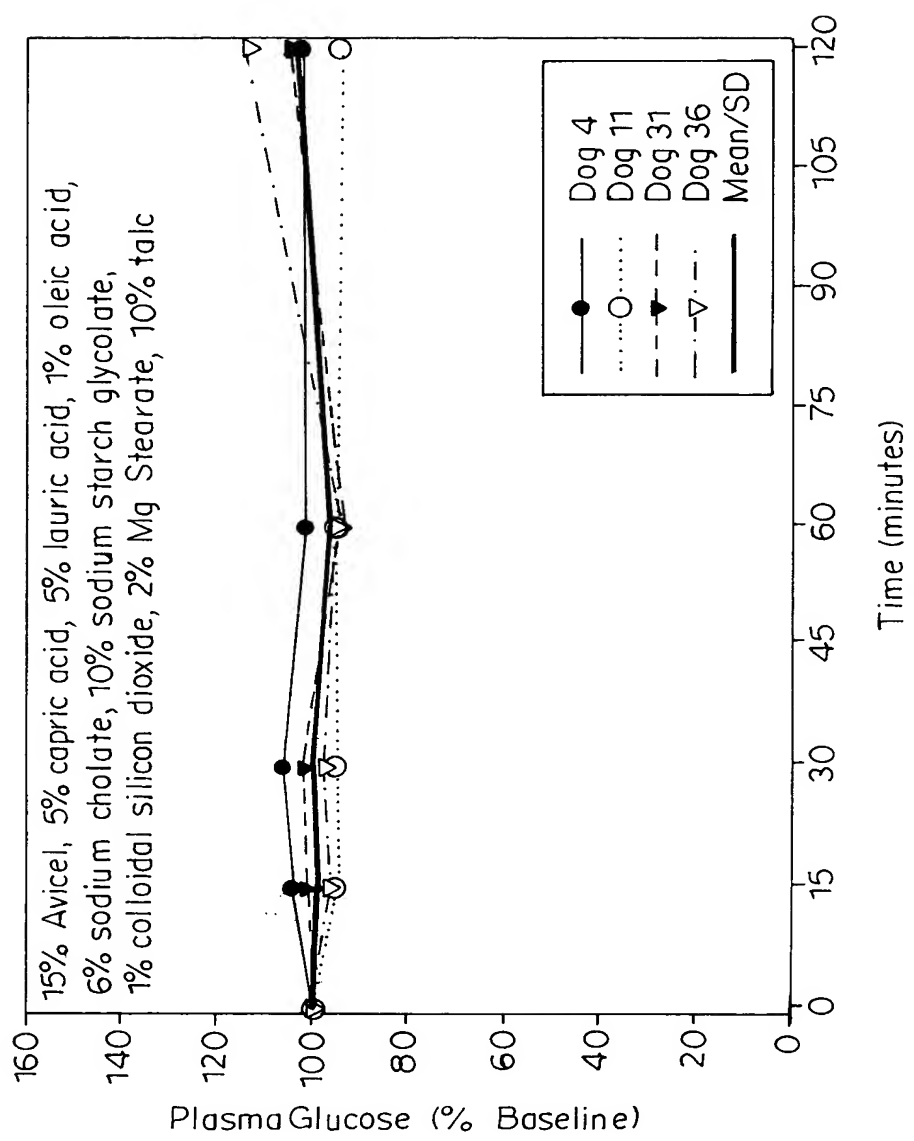


FIG. 22

Glucose-lowering Effect Enteric-Coated Tablet Formulation
Dosed at ~0.50 mg/kg (p.o.) to Fasted Beagles

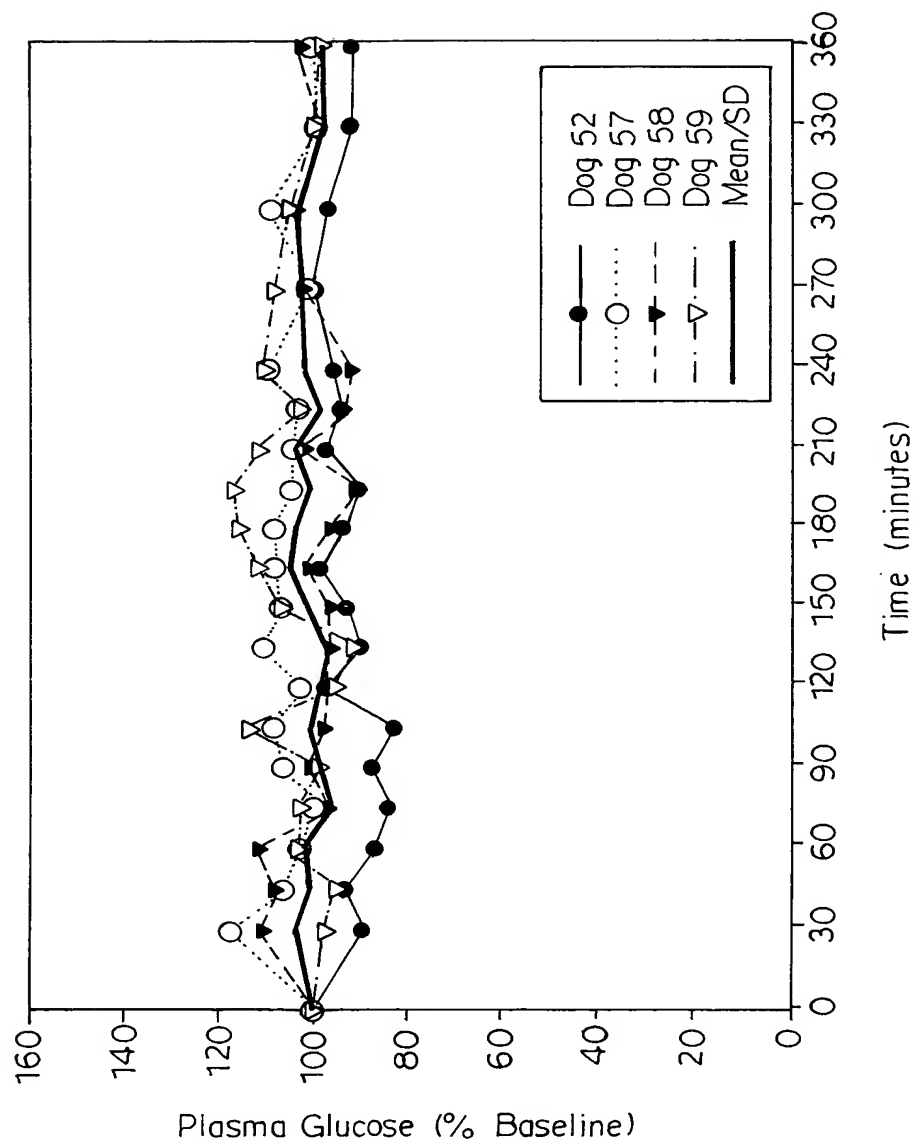


FIG. 23

Glucose-lowering Effect Non-Coated Tablet Formulation
Dosed at ~0.50 mg/kg (p.o.) to Fasted Beagles

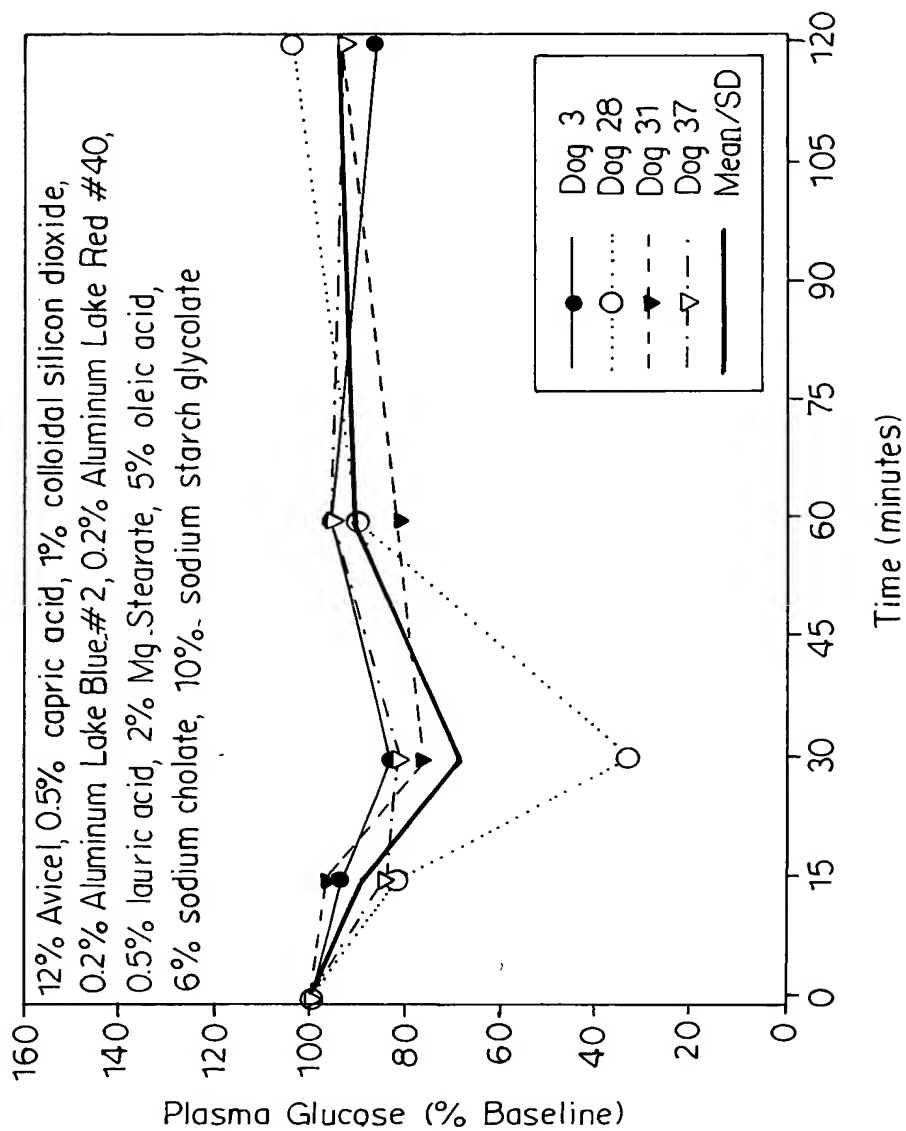


FIG. 24

Glucose-lowering Effect Enteric-Coated Tablet Formulation
Dosed at ~0.50 mg/kg (p.o.) to Fasted Beagles

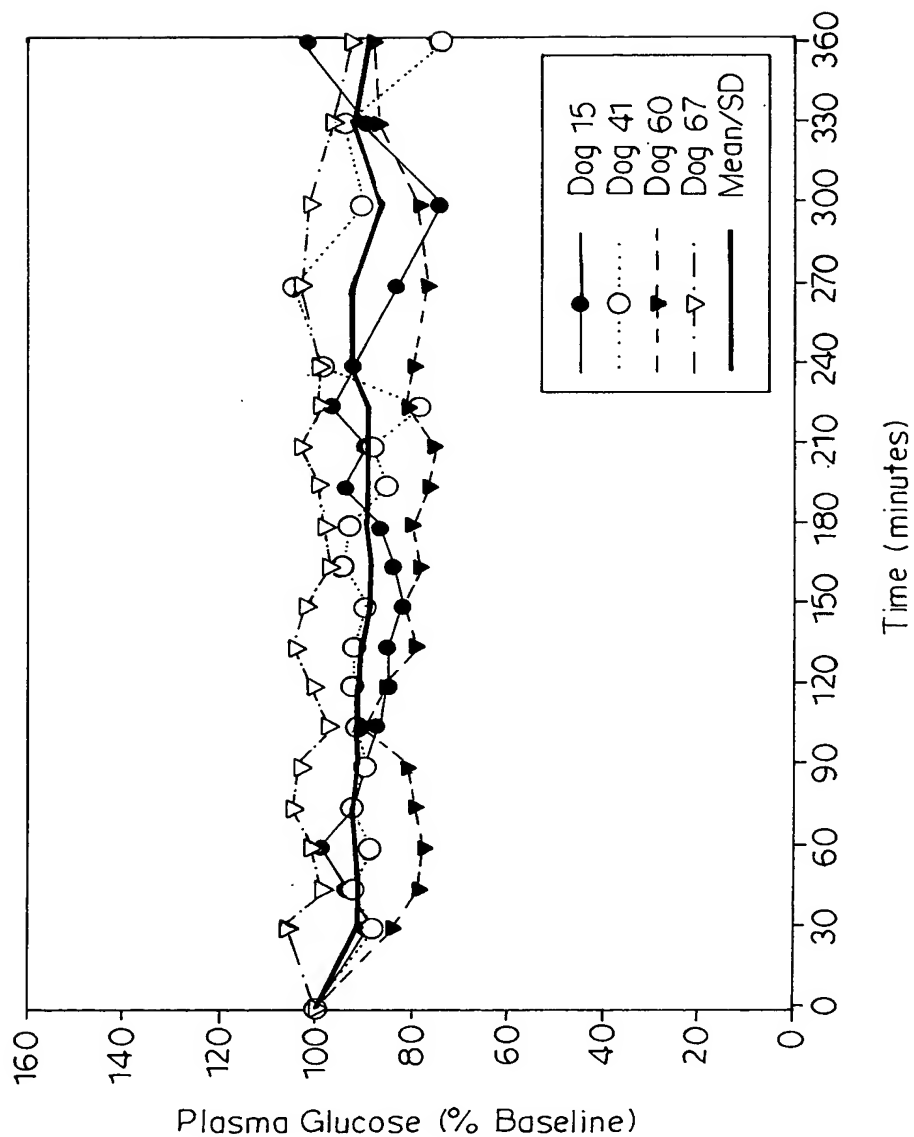


FIG. 25

Glucose-lowering Effect Enteric-Coated Tablet Formulation
Dosed at ~0.50 mg/kg (p.o.) to Fasted Beagles

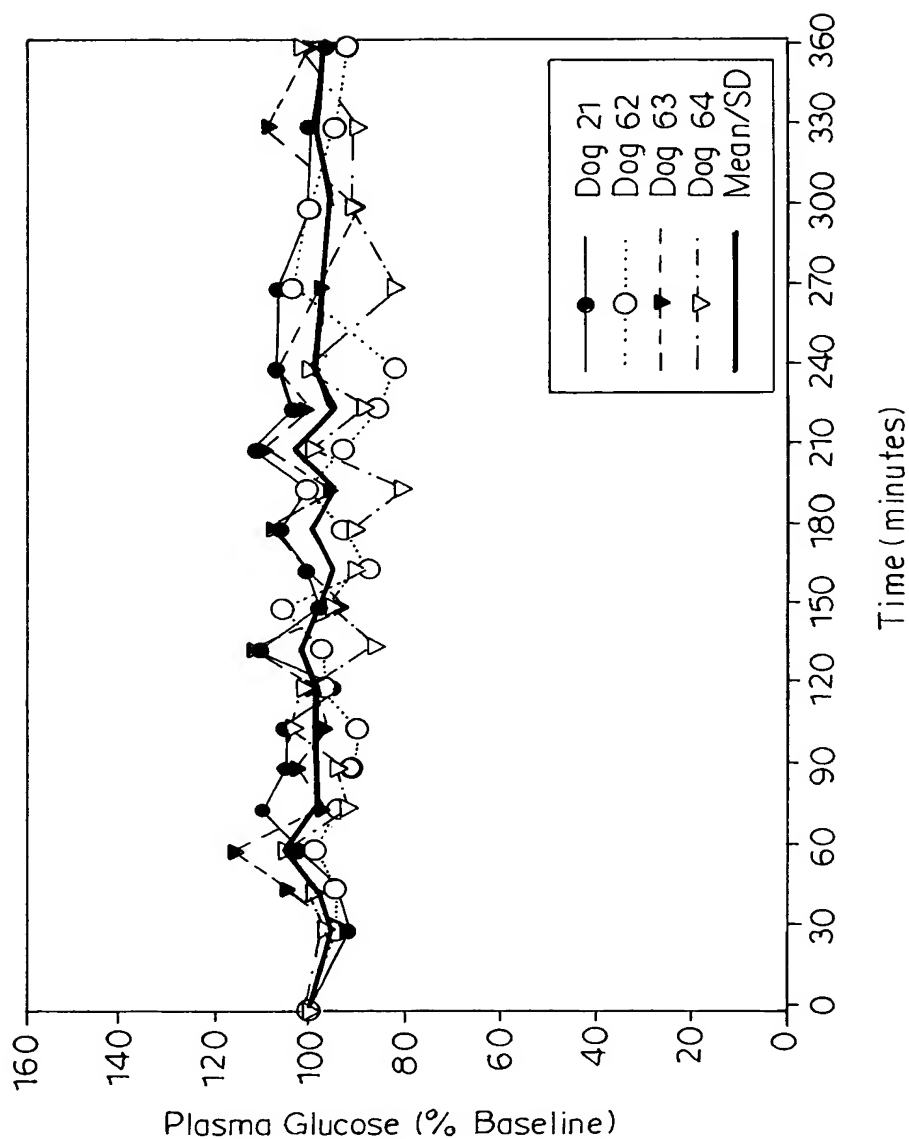


FIG. 26